

# Matt Taraldsen Saint Cloud State University Meteorology-Communications Student

Dr. Suzanne Stangl-Erkens Communication Studies, SCSU Dr. Anthony Hansen
Earth and Atmospheric Sciences, SCSU

Amanda Graning
Meteorologist/Forecaster

Pete Boulay
MN State Climatologist













#### Background



"Need a process by which WFO [Weather Forecast Offices] can systematically gather local customer input and local research results ... and turn that information into improved products and services" Ray Wolf – Science and Operations Officer (SOO) WFO Davenport, IA

- > 2007 March 1st Blizzard
- Survey Created & Maintained by Saint Cloud State University
- Utilizes Online Survey Methods
- ➤ Became operational March 1<sup>st</sup> 2008, will continue through winter 2010



#### Goals



- ➤ Improve communication of winter weather hazards/warnings.
- ➤ Gain insight into decision making related to hazardous weather
- ➤ Not a critique of the forecast accuracy
- > Available through variety of outlets
- Survey Results Available to all partners
- > Goal for next season: Expand Availability. More Partners!





#### Creating the Survey

- Utilized Range of Departments at SCSU
  - Statistics, Earth and Atmospheric Sciences, Communication Studies, Technology
- Created to follow Online Surveying Methods
- Questions were formulated similar to previous surveys on parallel topics
- ➤ Developed Post Storm Survey Homepage through SCSU where survey will be available
- Surveys Conducted Following Winter Storms that require a Warning to be issued by the local NWS



# Putting the Survey online



#### Post Storm Survey Homepage

http://studentweb.stcloudstate.edu/tama0502/poststormsurvey.html



### Posting the Online Survey



- > After a Storm Warning Expires
  - Short event specific survey available to take on the PSS site for 3 days
  - Multiple survey links in case of multiple/overlapping events
  - Continuous Updates to the PSS Web Site
- Multiple Locations
  - NWS "News of the Day" Section of Participating Offices
  - MN State Climatologist Web Page
  - Survey Link Distributed through MN Hidden Program
  - SCSU Meteorology Dept. Web Page
- > MORE PARTNERS!



# Test Season March-April 2008



- > Proposed for Winter Events Requiring a "Warning."
- Didn't quite work that way...
  - Not all Warning Events
  - Late Season, but winter did arrive
  - 3 good cases, over 500 responses
- ➤ Wide Array of Events (All Affected NE Minnesota & NW Wisconsin)
  - Blizzard of April 11<sup>th</sup>
  - Winter Storm of April 6<sup>th</sup>
  - Snow Event of March 18<sup>th</sup>



#### Test Season Events







#### Test Season Survey Results



- > Data went into an interactive web based interface
- > Analyzed by Matt Taraldsen
- > Presented Test Season Results:
  - Partners and Faculty at SCSU
  - Presented at Northern Plains Winter Storm Conference 2008
- ➤ Will be some minor adjustments to questions for 2008-2009 season





# The Questions





### Questions



1. Default Section	
Telephone	Friends
Cell Phone	Newspaper
NOAA Weather Radio	Public/Commercial
National Weather Service webpages	Radio Cable Television
Other internet webpages	Local Television
Other	
2. During this storm, where did you get your weather	er information? (Select all that apply).  Friends
Cell Phone	Newspaper
NOAA Weather Radio	Public/Commercial Radio
National Weather Service webpages	Cable Television (e. g. The Weather Channel, CNN, Weather Plus
Other internet webpages	Local Television
Other	



#### Conclusions



- > Significant number of respondents stated they altered their routine because concerned about road conditions/travel.
- People did not react as much to meteorlogic terminology such as sleet and freezing rain; *not a direct impact?*
- There was an increase in preparedness (gas, food water, communication) with highly anticipated blizzard versus low end snow event
- Climatology plays major factor....what is viewed as "normal Minnesota"?
  - A new question?



#### The Future



- > Expand Availability
- ➤ More PARTNERS!
  - Media
  - Other Weather Related Outlets
  - Universities



#### How to get involved?



- > Survey results will be updated as new cases are explored.
- ➤ If you are interested in becoming a partner, and hosting a link to the Post Storm Survey on your website,
- > please send an email to

poststormsurvey@gmail.com

## Thank You!



Matt Taraldsen
Saint Cloud State University
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poststormsurvey@gmail.com